

Interactive comment on “Process based inventory of isoprenoid emissions from European forests: model comparisons, current knowledge and uncertainties” by T. Keenan et al.

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We would like to first thank the reviewer for the time he/she took on the manuscript – it should lead to a great improvement of the manuscript.

Please find below our responses to the different comments and how we are going to address them in the revised version of the manuscript.

Comments on Referee 1 three major issues:

(1) We agree with and appreciate the Referee’s suggestions for a revision of the text – and will amend the text following the Referee’s specific comments.

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(2) The referee is correct in stating that the use of the improved species specific emissions capacity database was not shown to increase or decrease our accuracy in modeling emissions. However, we do regard the improvement in such databases as an important step towards providing emissions inventories in which we can have confidence (in particular on the 'sub-regional' level), as many commonly used basal emissions rates have remained unrevised since their first publishing. That said, we understand the reviewers concerns regarding a possible overemphasis on our use of a new database, and will 'tone it down' in the revised manuscript.

(3) We shall focus more on the results and analysis of model differences (following suggestions in the specific comments).

We are in agreement with all the specific/technical comments raised by the Referee, and shall incorporate them into the text of the revised version of the manuscript.

Best regards, Trevor Keenan.

Interactive comment on Atmos. Chem. Phys. Discuss., 9, 6147, 2009.

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